

MultiSpectral Gas Plume Imager



Ion Optics, Inc.

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VENDOR DESCRIPTION

Ion Optics has designed a new kind of gas plume imager. By modifying a COTS broadband uncooled infrared camera or FLIR, we can enhance the contrast of any gas present in the field of view. The key to imaging the gas is a unique multispectral filter which maximizes radiometric contrast and even allows us to highlight the gas against the background image.

From the user's point of view, the imager is similar to a common handheld infrared imager but with hardware and software modifications that will make any gas plume immediately visible in the display screen.



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Business Category: Small Business

MS

Hardware

Power: 5 watts, typ.	Operating Speed: 0 knots to 500 knots
Weight: 4-6 lbs	Operating Temp.: -10°C to 40°C
Dimensions: 200mm x 200mm x 400mm	Storage Temp.: -20°C to 60°C
Internal Volume: 1.5 ft ³	MTBSA: TBD
In-Flight Manipulation of the Sensor: Yes	MTTR: TBD
Operating Altitude: 0 ft to 30,000 ft AGL	Maintainability: 2-level BIT to LRM level

Performance

Swath Width: 100 ft @ 1000 ft AGL
Sensor Type: Multispectral infrared camera
On-board Storage Capacity for Continuous Collection for 8 hours